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Massachusetts
Institute of
Technology

Fax

To: Rich Motz From: JGAW CYR
Fax: 281 664 9615 Pages: 3
Phone: Date: 7/18/02
Re: CC:
☐ Urgent ☒ For Review ☐ Please Comment ☐ Please Reply ☐ Please Recycle

• Comments:

Rich - Let me know if this satisfies the requirements.

Thanks!

John Cyr
MIT



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Joan M. Cyr
5ESS Technical Consultant

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jcyr@mit.edu



July 18, 2002

AT&T
451 D Street
Boston, MA 02210

Attention: Richard Motz
Local Services Account Manager - NRO

Subject: Request for DID's

Dear Mr. Motz:

The Massachusetts Institute of Technology (MIT) hereby submits a request for the use of an exchange in area code 617 that ends in a 4.

The demand for voice services at MIT is rapidly expanding on campus for many different reasons, including:

- MIT is currently undergoing large-scale construction on campus. This construction includes
 - New residence halls slated for occupation in the Fall of 2002 (these residence halls are required to house Freshmen on campus, as they currently reside off campus in independent living groups);
 - New Graduate Student residence halls;
 - New faculty/staff buildings (e.g. Tech Square expansion)
 - An increase in demand for personal video conferencing units (all running 384 kb, requiring 3 DID's each);
- Increased use of individual fax machines
- Increased use of multiple DID's per employee
- Increased demand for remote access for Faculty and Staff

To meet this demand, MIT has recently installed a new Lucent 5ESS-2000 Telephone switch with increased capacity and functionality.

Because of the existing switch features, the exchange required by MIT can only end in the following numbers: 2, 3, 4, 5, 8, and on a limited basis, 7. It must also be outside of the ranges listed below. Today, we have the following exchanges/ranges:

- 225 - 0300 to 0399, 1000 to 1399, 1500 to 1799, 6100 to 6799, 7100 to 7699, 8100 to 8999, and 9100 to 9899.
- 252 - 1000 to 1999, 4300 to 4399, 6950 to 7049
- 253 - 0000 to 8999, 9200 to 9899
- 258 - 0100 to 0999, 1000 to 4999 (USED BY DRAPER LAB), 5000 to 8999, 9100 to 9899
- 452 - 2000 to 5999
- 577-5300 through 5999.

Each of the 5 major exchanges ends in one of the numbers above. The 577 is an exceptional range; the use of an exchange ending in a 7 can only happen on



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a limited basis due to feature activation codes that begin with a 7 (call forwarding). Other current feature/access codes include 1 (LD), 6 (number privacy and # of rings), 9 (local), and 0 (operator). The * and # keys are used for 10 digit or 20 digit speed dialing. Therefore, we need exchanges that fit into our existing dialing pattern and are both outside the ranges of the exchanges we currently have, and do not end in a digit that is a current feature code activation number in our switch.

As you can see, there is only a small gap that currently exists within the ranges that would fit in our current dialing scheme: (617) XX5 range (4,300 numbers between 225-1799 and 225-6100). There are no ranges currently in use by MIT in the (617) XX4 exchange. Since MIT already utilizes 6 exchanges, it would be beneficial from a consolidation of exchanges viewpoint to add only one exchange than to add several others to an ever increasingly expanding list of exchanges in use by one customer (MIT).

It is MIT's intention to utilize 2,000 DID's by July 30, 2002, with the remaining DID's utilized by 12/31/02.

Thank you,

Joan M. Cyr
Massachusetts Institute of Technology
5ESS Technical Consultant